

DOCKET NO.: 205065US0X DIV of  
2421-0362-0X

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :  
HIDEKI SATOU ET AL : ATTN: APPLICATION DIVISION  
SERIAL NO: NEW DIVISIONAL APPL. :  
FILED: HEREWITH :  
FOR: METHOD FOR POLYMERIZATION:  
OF OLEFIN

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Prior to examination on the merits, please amend the above-identified application as follows:

IN THE CLAIMS

Please cancel without prejudice Claims 1 and 2.

Please add the following new Claims 3-10.

--3. (New) An apparatus for preparing a polymer from at least one olefin comprising:  
a first reactor connected in series to one or more reactors comprising at least one gas-phase reactor;  
at least one monomer feed line connected to said first reactor  
a powder transfer line connecting said first reactor to said one or more reactors;

a compressor connected to said gas-phase reactor;  
a heat exchanger connected to said compressor;  
a gas/liquid separator connected to said heat exchanger;  
a gas discharge line connected to said gas/liquid separator; and  
a liquid transfer line connecting said gas/liquid separator to said gas-phase reactor,  
wherein each of said one or more reactors are connected in series with an additional  
powder transfer line.

4. (New) An apparatus for preparing a polymer from at least one olefin comprising:  
a first reactor connected in series to one or more reactors comprising at least one gas-  
phase reactor;  
at least one monomer feed line connected to said first reactor  
a powder transfer line connecting said first reactor to said one or more reactors;  
a compressor connected to said gas-phase reactor;  
a first heat exchanger connected to said compressor;  
a first gas/liquid separator connected to said first heat exchanger;  
a first gas discharge line connecting said first gas/liquid separator to a second heat  
exchanger;  
a first liquid transfer line connecting said first gas/liquid separator to said gas-phase  
reactor;  
a second gas/liquid separator connected to said second heat exchanger;  
a second gas discharge line connected to said second gas/liquid separator; and  
a second liquid transfer line connecting said second gas/liquid separator to said gas-  
phase reactor,

wherein each of said one or more reactors are connected in series with an additional powder transfer line.

5. (New) The apparatus of Claim 3, wherein said first reactor and said one or more reactors comprise 2 to 10 reactors.

6. (New) The apparatus of Claim 4, wherein said first reactor and said one or more reactors comprise 2 to 10 reactors.

7. (New) The apparatus of Claim 3, further comprising at least one catalyst feed line connected to said first reactor.

8. (New) The apparatus of Claim 4, further comprising at least one catalyst feed line connected to said first reactor.

9. (New) The apparatus of Claim 3, further comprising at least one additional monomer feed line connected to each of said one or more reactors.

10. (New) The apparatus of Claim 4, further comprising at least one additional monomer feed line connected to each of said one or more reactors.--

#### SUPPORT FOR THE AMENDMENTS

New Claims 3-10 are supported by Figures 1 and 2, and at page 5, line 10 to page 14, line 7. No new matter would be added by entry of new Claims 3-10. Claims 3-10 are active.

REMARKS

Applicants submit that the present application is in condition for examination on the merits. Early notification to this effect is earnestly solicited.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

*Thomas A. Blink*

Norman F. Oblon  
Attorney of Record  
Registration No. 24,618  
Thomas A. Blinka, Ph.D.  
Registration No. 44,541



**22850**

(703) 413-3000  
Fax #: (703) 413-2220  
NFO/TAB/law

I:\atty\tab\205065-PR.WPD